

Title (en)  
METHODS FOR RECOVERING CHLORINATED HYDROCARBONS

Title (de)  
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Title (fr)  
PROCÉDÉS POUR RÉCUPÉRER DES HYDROCARBURES CHLORÉS

Publication  
**EP 3103785 A3 20170308 (EN)**

Application  
**EP 16176359 A 20140212**

Priority

- US 201361763583 P 20130212
- US 201313831064 A 20130314
- EP 14710411 A 20140212
- US 2014016026 W 20140212

Abstract (en)  
[origin: US2014228601A1] Processes for isolating 1,1,1,2,3-pentachloropropane from a crude product stream containing the 1,1,1,2,3-pentachloropropane and ferric chloride. The processes may include deep distillation of the crude, treatment of the crude with a reagent that deactivates the ferric chloride followed by distillation on the deactivated crude stream, aqueous washing of the crude product stream to remove ferric chloride followed by distillation on the deactivated crude stream. Other embodiments simultaneously prepare 1,1,2,3-tetrachloroprene and 1,1,1,2,3-pentachloropropane.

IPC 8 full level  
**C07C 17/25** (2006.01); **C07C 17/38** (2006.01); **C07C 17/383** (2006.01); **C07C 17/386** (2006.01); **C07C 17/395** (2006.01); **C07C 19/01** (2006.01); **C07C 21/04** (2006.01)

CPC (source: EP US)  
**B01D 3/009** (2013.01 - US); **B01D 3/10** (2013.01 - US); **B01D 3/34** (2013.01 - US); **B01D 11/04** (2013.01 - US); **B01J 27/128** (2013.01 - US); **C07C 17/25** (2013.01 - EP US); **C07C 17/38** (2013.01 - EP US); **C07C 17/383** (2013.01 - EP US); **C07C 17/386** (2013.01 - EP US); **C07C 17/395** (2013.01 - EP US); **C07C 17/42** (2013.01 - US); **C07C 19/01** (2013.01 - US); **C07C 17/06** (2013.01 - US); **C07C 17/278** (2013.01 - US); **Y02P 20/10** (2015.11 - EP US)

C-Set (source: EP US)  
EP  
1. **C07C 17/383 + C07C 19/01**  
2. **C07C 17/25 + C07C 21/04**  
3. **C07C 17/395 + C07C 19/01**  
4. **C07C 17/38 + C07C 19/01**  
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US  
1. **C07C 17/42 + C07C 19/01**  
2. **C07C 17/383 + C07C 19/01**  
3. **C07C 17/25 + C07C 21/04**  
4. **C07C 17/395 + C07C 19/01**  
5. **C07C 17/38 + C07C 19/01**  
6. **C07C 17/386 + C07C 19/01**

Citation (search report)

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- [E] WO 2014121173 A1 20140807 - HONEYWELL INT INC [US]
- [E] WO 2014116562 A1 20140731 - AXIALL OHIO INC [US]
- [A] THOTLA S ET AL: "Reactive distillation with side draw", CHEMICAL ENGINEERING AND PROCESSING, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 48, no. 4, 1 April 2009 (2009-04-01), pages 927 - 937, XP026035023, ISSN: 0255-2701, [retrieved on 20090113], DOI: 10.1016/J.CEP.2008.12.007

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**US 2014228601 A1 20140814; US 9067858 B2 20150630**; CA 2900383 A1 20140821; CA 2900383 C 20210914; CA 3126988 A1 20140821; CN 105073690 A 20151118; CN 105073690 B 20180116; CN 107986940 A 20180504; EP 2956432 A2 20151223; EP 3103785 A2 20161214; EP 3103785 A3 20170308; EP 3103785 B1 20200318; EP 3659993 A1 20200603; EP 3659993 B1 20230607; EP 4249458 A2 20230927; EP 4249458 A3 20240424; ES 2790753 T3 20201029; ES 2953830 T3 20231116; FI 3659993 T3 20230828; HK 1212325 A1 20160610; JP 2016511759 A 20160421; JP 2018184456 A 20181122; JP 2020203937 A 20201224; JP 6440634 B2 20181219; JP 7200185 B2 20230106; MX 2015008794 A 20160428; MX 2019002401 A 20190708; PT 3103785 T 20200619; PT 3659993 T 20230828; US 10207970 B2 20190219; US 2015266799 A1 20150924; US 2015376094 A1 20151231; US 2017174590 A1 20170622; US 9586877 B2 20170307; US 9598337 B2 20170321; WO 2014127001 A2 20140821; WO 2014127001 A3 20141009

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**US 201313831064 A 20130314**; CA 2900383 A 20140212; CA 3126988 A 20140212; CN 201480008399 A 20140212; CN 201711365214 A 20140212; EP 14710411 A 20140212; EP 16176359 A 20140212; EP 20153903 A 20140212; EP 23176442 A 20140212; ES 16176359 T 20140212; ES 20153903 T 20140212; FI 20153903 T 20140212; HK 16100393 A 20160114; JP 2015557220 A 20140212; JP 2018140870 A 20180727; JP 2020153422 A 20200914; MX 2015008794 A 20140212; MX 2019002401 A 20150707; PT 16176359 T 20140212; PT 20153903 T 20140212; US 2014016026 W 20140212; US 201414767417 A 20140212; US 201514730424 A 20150604; US 201715449017 A 20170303